



THE GREAT DERRICKS OF THE NEW EQUITABLE BUILDING, DENVER, COL.

of tons of materials which are required in its construction. In this case the building company, after due investigation, decided to employ the Norcross derrick for this purpose. Six of these derricks were erected upon the plot within the outer lines of the building, each having booms long enough to extend twenty-five feet beyond the walls on each side, the whole being capable of covering the entire plot. These derricks are mounted on heavy trestle work, which raises them forty-two feet above the cellar floor, and the booms are so high that it will be unnecessary to remove the derricks before the fifth story is reached.

The masts of the derricks are of Oregon pine, 16 inches square and 75 feet long, and the booms are composed of two pieces of Oregon pine 16 x 18 and 52 feet long. The back straps are of Norway iron,

1 x 6 inches, and the iron suspension rods extending from the tops of the masts to the booms are of 2 inch round iron. The booms are each provided with a trolley by means of which the material may be carried in a horizontal direction. The derricks are turned by men who stand on platforms on the masts, who also operate the trolley by means of chain and worm gear.

The hoisting cables extend to the engine house, which contains six hoisting engines, one for each derrick, each engine being 40 horse power, with a capacity of 7,000 pounds on a single rope. An electric call bell and indicator is provided for each engine, so that the men at the derricks may communicate with the engineer by means of audible and visible signals.

The first work done by the construction company